



U.S. Department
of Transportation

**Research and
Special Programs
Administration**

APR 7 2000

400 Seventh Street, S.W.
Washington, D.C. 20590

DOT-E 7413
(ELEVENTH REVISION)

EXPIRATION DATE: March 31, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Chilton Products Division, Western Industries
Chilton, Wisconsin
2. PURPOSE AND LIMITATIONS:
 - a. This exemption authorizes the manufacture, mark, sale and use of a non-DOT specification cylinder conforming with all regulations applicable to a DOT specification 3E cylinder, except as specified herein, for the transportation in commerce of the materials authorized by this exemption. This exemption provides no relief from any Hazardous Materials Regulation (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171- 180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.302(a), 173.304(a) and 175.3 in that the use of a non DOT specification package is authorized.
5. BASIS: This exemption is based on the application of Chilton Products dated December 30, 1999, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Material Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Air, compressed	2.2	UN1022	N/A
Carbon dioxide	2.2	UN1013	N/A
Nitrogen, compressed	2.2	UN2051	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - The packagings prescribed are non-DOT specification brazed cylinders built in accordance with Chilton assembly drawings 51320-53 Rev. B dated 9-14-83 and 51200-23 Rev 0 dated 9-12-83 on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA) and must comply with DOT Specification 3E (49 CFR 178.42) except as follows:

§ 178.42(a) *Type, size and service pressure.*

Cylinder is of brazed construction and must have an inside diameter not greater than 1.87 inches and a minimum sidewall thickness of .065 inch. The length of the cylinder must be less than 2 feet with a service pressure of 1,800 pounds per square inch. Volume is not to exceed 30 cubic inches water capacity. The cylinder body must be constructed from seamless steel tubing. Steel end caps attached by furnace brazing must have an interference fit.

§ 178.42(d) *Manufacture.*

Add - Furnace brazing temperature must be approximately 2,000° F followed by slow cool down. Brazing is authorized only for attaching end caps to tubular body and valve housing to one end cap.

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§178.42(f) *Hydrostatic test.*

(1) One cylinder out of each lot of 500 cylinders or less must be subjected to a hydrostatic pressure of 7,200 psi.

(2) The cylinder referred to in paragraph (f)(1) of this section shall be pressurized to burst pressure or to 12,000 psi held for 30 seconds without bursting.

(i) Cylinder bursting between 7200 psi and 12,000 psi must not fragment or show lack of ductility.

(ii) Cylinder holding 12,000 psi pressure shall be subjected to a flattening test without cracking to six times wall thickness between knife edges, wedge shaped 60 degree angle rounded out to ½ inch radius.

(3) * * *

b. MARKINGS - Markings must be in accordance with the requirements under §178.35(f) except "DOT E 7413" must replace "DOT 3E".

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this exemption for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this exemption.

b. A person who is not a holder of this exemption, but receives a package covered by this exemption, may reoffer it for transportation provided no modifications or changes are made to the package and it is offered for transportation in conformance with this exemption and the HMR.

c. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

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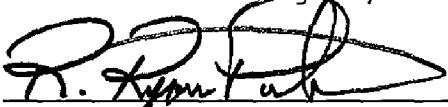
- d. Each packaging manufactured under the authority of this exemption must be marked with a registration symbol designated by the Office of Hazardous Materials Exemptions and Approvals for a specific manufacturing facility.
- e. A current copy of this exemption must be maintained at each facility where the package is manufactured under this exemption. It must be made available to a DOT representative upon request.
- f. The cylinders must be shipped in strong outside packagings in accordance with §173.301(k).
- g. Except as provided for in this exemption, a cylinder that is to be used as a tire inflator or fire extinguisher, when securely installed in the trunk of a motor vehicle, is excepted from Subchapter C of 49 CFR.
- 9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, cargo aircraft only, and passenger-carrying aircraft.
- 10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper shall furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.
- 11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
 - o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
 - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

Issued at Washington, D.C.


for Robert A. McGuire
Acting Associate Administrator for
Hazardous Materials Safety

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(DATE)

Address all inquiries to: Associate Administrator for
Hazardous Materials Safety, Research and Special Programs
Administration, Department of Transportation, Washington, D.C.
20590. Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S.
Department of Transportation, 400 7th Street, S.W.,
Washington, DC 20590-0001, Attention: Records Center, 202-366-
5046.

PO: KFW